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Ceratosmicra campoplegicus Burks, Male Description and New Distribution Records (Hymenoptera: Chalcididae)

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Abstract.—The male of *Ceratosmicra campoplegicus* Burks is described from material collected in California, United States. The petiole of the male plesioallotype and the male of *C. meteori* Burks, a closely related species, are illustrated. The range of *C. campoplegicus* was California (Burks, 1979) though should also include Oregon and Arizona (Burks, 1968). New distribution data extends this range into Baja California Norte, Morelos, and Puebla (Mexico). Additional locality data for Oregon and Arizona are presented.

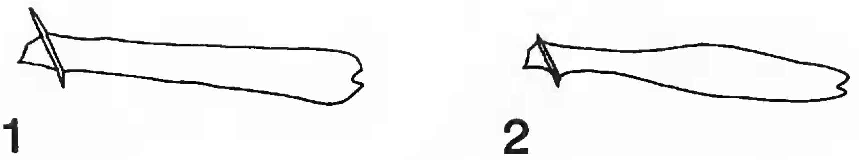
Recently, while conducting studies on the family Chalcididae, the undescribed male of *Ceratosmicra campoplegicus* Burks was discovered in several collections. *Ceratosmicra campoplegicus* was described from females in Burks' (1968) second treatment of the genus *Ceratosmicra* Ashmead in America north of Mexico. At present, males of two (*C. campoplegicus* and *C. provancheri* Burks) of the six species of *Ceratosmicra* in America north of Mexico are not described. I therefore take this opportunity to describe one of these, *C. campoplegicus.*

In Burks' (1968) key to species, the male of *C. campoplegicus* keys to the female of *C. campoplegicus.* Males of *C. campoplegicus* and *C. meteori* Burks, a closely related species, are sometimes difficult to distinguish from each other because the key character identifying *C. meteori* (middle area of the petiole enlarged—see Fig. 2) is not prominant in some individuals. These two species can be separated by the shape of the flange at the base of their petiole. The flange of *campoplegicus* is broad (Fig. 1); the flange of *meteori* is narrow (Fig. 2).

Ceratosmicra campoplegicus Burks

Plesioallotype male.—Length 4.0 mm. Black with yellow and white markings. The following areas are yellow: ventral surface of scape, pedicel, flagella, and club; antennal sockets, genae, frons, clypeus, labrum, mandibles except teeth, thin band along posterior margin of compound eye extending from gena to lateral ocelli; dorsal submedial area of pronotum; lateral, outer margin of mesopraescutum; lateral, outer margin of mesoscutellum; tegulae, anterior half of fore coxae, fore and middle legs except middle coxae and tarsal claws; anterior, dorso-anterior, and ventro-posterior areas of outerside of hind femora, hind tibiae except in middle, hind tarsus except claws, dorso-basal half of hind coxae, median triangular area of tergite 1 (T1), T2 dorso-laterally, submedial spot on T6, and ventral margin of tergites. Basal ⅓ of petiole white.

Scape reaching level of anterior ocellus, widened apically; flagella of equal length,



Figures 1, 2. Lateral view of petiole of male (1) *Ceratosmicra campoplegicus,* male plesioallotype and (2) *Ceratosmicra meteori.*

all slightly longer than wide; ring segment ¼ as long as flagella, club 2.5× flagellar length, pedicel slightly longer than flagella, scrobe cavity shallow, margins acarinate, coriaceous. Frons, genae, and clypeus coriacious. Clypeus triangular, labrum 3× as wide as long. Distance between antennal sockets equal to antennal socket diameter. Anterior ocellus round, lateral ocelli oval. Anterior ocelli separated from lateral ocelli by anterior ocellar diameter. Lateral ocelli separated from margin of compound eye by ½ lateral ocellar diameter. Remainder of head and thorax dorsally with shallow setigerous umbilicate punctation, integument aciculate. Head in dorsal view wider than width of thorax. Anterior margin of pronotum acarinate though squared off. Lateral sides of pronotum coriaceous. Mesopleural acetabulum shallow, transversely carinate. Petiole in lateral view linear, 7× as long as widest point, anterior flange angled dorsally, prominant (Fig. 1). Petiole in dorsal view slightly wider in posterior half than anterior half, integument coriaceous. Length of petiole equal to length of mesopraescutum and pronotum together. Propodeum with a strong inverted "Y" shaped carina, remainder coriaceous, without ventral or lateral teeth. Outer dorsal area of hind coxae centrally glabrous and heavily coriaceous. Hind coxae 1.2× as long as petiole. Hind femora with a distinct, sharp tooth on inner side near base. Ventral margin with 17 teeth.

Type locality.—California, Tulare County, Ash Mountain, Kaweah Powerhouse #3, X-29-1982, J. A. Halstead, R. D. Haines, and D. J. Burdick. This specimen is in the collection of the United States Museum of Natural History, Washington, D.C.

The recorded range for *C. campoplegicus* is California (Burks, 1979) but should also include Oregon and Arizona (Burks, 1968). New distribution data extends the range of this wasp into Baja California Norte, Morelos, and Puebla (Mexico). Additional locality data for Oregon and Arizona and the new records for Mexico include:

UNITED STATES. OREGON, Yamhill Co.: 27-I-1934, E. S. Ross (1 ♀). ARIZONA, Pima Co.: Santa Catalina Mts., 15-VIII-1938, Bryant (1 ♀); Cochise Co.: Chiricahua Mts., E. Turkey Creek, 6.5 mi W Portal, 6400 ft, 20-VII-1981, on *Quercus,* H. A. Hespenheide (1 ♀); Chiricahua Mts., Sunny Flat, 5700 ft, 26-V-1980, on *Quercus,* H. A. Hespenheide (1 ♀, 1 ♂); Chiricahua Mts., Onion Saddle, 7600 ft, 22-VII-1981, on *Quercus,* H. A. Hespenheide (1 ♀).

MEXICO. BAJA CALIFORNIA NORTE, Arroyo Santo Domingo, 5.7 mi E Hamilton Ranch, dam site, 23-IV-1963, H. B. Leech and P. H. Arnaud (1 ♀). PUEBLA, 20 mi W Puebla, 29-XII-1940, G. E. Bohart (1 ♀). MORELOS, 6 mi E Cuernavaca, 1-IX-1974, G. E. Bohart and W. J. Hansen (1 ♀).

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